



Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 13445-022001	Application No. 10/720,606
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant Vladimir Fuflyigin et al.	
		Filing Date November 24, 2003	Group Art Unit 2883

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
64	AA	H1754	10/1998	Tran et al.			
2	AB	3,850,604	11/1974	Klein			
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(37 CFR §1.98(b))			

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Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
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ca	ALLL	0 195 630	09/1986	Europe				
ca	AMMM	0 426 203	05/1991	Europe				
ca	ANNN	2000-035521	02/2000	Japan				
ca	AOOO	2001-051244	02/2001	Japan				
ca	APPP	WO 94/09393	04/1994	WIPO				
ca	AQQQ	WO 94/16345	07/1994	WIPO				
ca	ARRR	WO 97/01774	01/1997	WIPO				
ca	ASSS	WO 00/22466	04/2000	WIPO				
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Examiner Initial	Desig. ID	Document
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ca	AXXX	Andrea Melloni et al., "All-optical switching in phase-shifted fiber Bragg grating," IEEE Photonics Technology Letters, 12 (1): 42-44, January 2000.

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12	AYYY	B. E. Little et al., "Microring resonator arrays for VLSI photonics", IEEE Photon. Technol. Lett., 12 (3): 323-325 (2000).
12	AZZZ	Berger V. "From photonic band gaps to refractive index engineering." Optical Materials, 11:2-3, Jan. 1999, pp. 131-142.
12	AAAAA	B. J. Eggleton et al., "All-optical switching in long-period fiber gratings," Optics Letters, 22 (12): 883-885, June 15, 1997.
12	ABBBB	B. J. Eggleton et al., "Grating resonance in air-silica microstructured optical fibers", Opt. Lett., 24 (21): 1460 (1999).
12	ACCCC	B. Malo, et al., "Photosensitivity in phosphorous-doped silica glass and optical waveguides," Appl. Phys. Lett 65 (4): 394 (1994).
12	ADDDD	Chang et al. "Vector Normal Modes on Two-Core Optical Fibers – Part I: The Normalmode solutions." Journal of Lightwave Technology, 15:7, Jul. 1997, pp. 1213-1223.
12	AEEEE	D. Furniss et al., "A novel approach for drawing optical fibers from disparate core/clad. glasses," J Non-Cryst. Sol. 213-214: 141-146 (1997).
12	AFFFF	E. Anderson et al., "Dielectric Materials for Manufacturing Photonic Bandgap Waveguide," US Patent Disclosure, (2001).
12	AGGGG	E. Brinkmeyer, et al., "Fibre Bragg reflector for mode selection and line-narrowing of injection lasers", Electron. Lett., 22 (3): 134 (1986).
12	AHHHH	Feigel A. et al. "Chalcogenide glass-based three-dimensional photonic crystals." Applied Physics Letters, 77:20, pp. 3221-3223, November 13, 2000.
12	AIIII	Fink et al. "Guiding optical Light in Air Using an All-Dielectric Structure," Journal of Lightwave Technology, Vol. 17, no. 11, November 1999
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12	AKKKK	G. S. He et al., "Efficient amplification of a broad-band optical signal through stimulated Kerr scattering in a CS2 liquid-core fiber system," IEEE J. Quantum Electron., 28 (1): 323-329 (1992).
12	ALLLL	H.A. Haus, et al., "Antisymmetric taper of distributed feedback lasers", IEEE J. Quantum Electron., QE-12 (9): 532 (1976).
12	AMMMM	I. Gannot, et al., "Current Status of Flexible Waveguides for IR Laser Radiation Transmission", IEEE J. Sel. Topics in Quantum Electr., IEEE Service Center, 2 (4): 880-888 (Dec 1996).
12	ANNNN	J. Fick et al., "High photoluminescence in erbium-doped chalcogenide thin films," J. Non-crystalline Solids, 272 (2-3): 200-208 (2000).
12	AOOOO	J. Kobelke et al., "Chalcogenide glass single mode fibers--preparation and properties," J. Non-Crystalline Solids, 256-7: 226-231 (1999).
12	APPPP	J. M. Harbold et al., "Highly nonlinear As-S-Se glasses for all-optical switching," Optics Lett., 27 (2): 119-121 (2002).
12	AQQQQ	J. Marchionda et al., "Advanced rod in tube techniques for fluoride fiber fabrication," Ceramics Transactions, Solid-State Optical Materials, eds. Allan J. Bruce and B.V. Hiremath, 28: 587-596 (1992).
12	ARRRR	Johnson et al., "Low-loss asymptotically single-mode propagation in large-core OmniGuide fibers," OPTICS EXPRESS, Vol. 9, No. 13, pages 748-779, December 17, 2001.
12	ASSSS	J. S. Foresi et al., "Photonic-bandgap microcavities in optical waveguides," Nature, 390: 143-145 (November 13, 1997).
12	ATTTT	Jia Jiang et al., "Fluorophosphate cladding glasses for fluoride glass fibers," J Non-Cryst. Sol., 213 and 214: 11-15 (1997).
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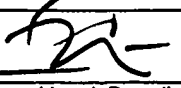
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AVVVV	K. O. Hill, et al., "Photosensitivity in optical fiber waveguides: Application to reflection filter fabrication", Appl. Phys. Lett., 32 (10): 647 (1978).
AWWWW	K. O. Hill, et al., "Efficient mode conversion in telecommunication fibre using externally written gratings", Electron. Lett., 26 (16): 1270 (1990).
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AAAAA	Massadegh R. et al. "Fabrication of single-mode chalcogenide optical fiber." Journal of Lightwave Technology, 16:2, pp. 214-216, February 1998.
ABBBB	M. Ibanescu et al., "An all dielectric coaxial waveguide," Science, 289: 415-419 (2000).
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AHHHH	Nishii, J. et al. "Chalcogenide glass fiber with a core-cladding structure." Applied Optics, 28: 23, pp. 5122-5127, December 1, 1989.
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AKKKK	R. E. Smith et al., "Reduced coupling loss using a tapered-rib adiabatic-following fiber coupler," IEEE Photon. Technol. Lett., 8 (8): 1052-1054 (1996).
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AMMMM	R. Nubling and J. Harrington "Hollow-waveguide delivery systems for high-power, industrial CO ₂ lasers," Applied Optics, 34, No. 3, pp. 372-380 (1996)
ANNNN	R. U. Ahmad et al., "Ultracompact corner-mirror and T-branches in silicon-on-insulator," IEEE Photon. Technol. Lett., 14 (1): 65-76 (January 2002).
AOOOO	Sanghera, J.S. et al. "Development and infrared applications of chalcogenide class optical fibers." Fiber and Integrated Optics, 19:3, pp. 251-274, March 1, 2000.
APPPP	Sanghera, J.S. et al. "Fabrication of long lengths of low-loss IR transmitting AS40S (60-X) sex glass fibers." Journal of Lightwave Technology, 14:5, pp. 743-748, May 1, 1996.
AQQQQ	S. Coen et al., "White-light supercontinuum generation with 60-ps pump pulses in a photonic crystal fiber," Opt. Lett., 26 (17): 1356-1358 (2001).
ARRRR	S. Ramachandran and S. G. Bishop, "Low loss photoinduced waveguides in rapid thermally annealed films of chalcogenide glasses," Appl. Phys. Lett., 74 (1): 13-15 (1999).
ASSSS	Stojan Radic et al., "Theory of low-threshold optical switching in nonlinear phase-shifted periodic structures," J.Opt.Soc.Am. B, 12 (4): 671-680, April 1995.

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CC	ATTTTT	T. Cardinal et al., "Non-linear optical properties of chalcogenide glasses in the system As-S-Se," J. Non-Crystalline Solids, 256-7: 353-360 (1999).
CC	AUUUUU	T.A. Birks et al., "Dispersion Compensation Using Single-Material Fibers," IEEE Photonics Technology Letters, 11 (6): 674-676 (1999).
CC	AVVVVV	Y. Fink et al., "Block copolymers as photonic band gap materials," J. Lightwave Tech., 17 (11): 1963-1969, (JLT IEEE-special issue on photonic crystals-invited paper) (1999).
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CC	AZZZZZ	Yoel Fink et al., "A dielectric omnidirectional reflector," Science, 282: 1679-1682 (1998).
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